

Addressable active materials and technology applications

Abstract

A new type of continuously addressable active material forming linear fibers, woven fabric, or flexible sheets is capable of random read/write access to any location within continuous one-dimensional or two-dimensional range. These materials provide high up to 10 nm spatial resolution of addressing and nanosecond scale access time. They provide new approach for efficient and inexpensive integration of ultra large planar and linear arrays of microstructures.